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APPLICATION NO.	1	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/706,696	10/706,696 11/12/2003		Herve Varin	033339/271282	8604	
826	7590	05/17/2006		EXAM	EXAMINER	
ALSTON			CHARLES,	CHARLES, MARCUS		
BANK OF A		A PLAZA STREET, SUITE 400	ART UNIT	PAPER NUMBER		
CHARLOT	CHARLOTTE, NC 28280-4000			3682		
				DATE MAILED: 05/17/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		10/706,696	VARIN ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Marcus Charles	3682				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL CHEVER IS LONGER, FROM THE MAILING Insions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statuff reply received by the Office later than three months after the mailined patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be timed will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
2a) <u></u> 	Responsive to communication(s) filed on 12 f This action is FINAL . 2b) This Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pro					
Dienociti	ion of Claims	, ,					
4)⊠ 5)□ 6)⊠ 7)□ 8)□ Applicati 9)⊠ 10)⊠	Claim(s) 1-14 is/are pending in the application 4a) Of the above claim(s) is/are withdraware Claim(s) is/are allowed. Claim(s) 1-14 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or are subject to restriction and/or are specification is objected to by the Examinating The drawing(s) filed on 20 February 2004 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examination of the correct that are objected to by the Examination of the correct that are objected to by the Examination of the correct that are objected to by the Examination of the correct that are objected to by the Examination of the correct that are objected to by the Examination of the correct that are objected to by the Examination of the correct that are objected to by the Examination of the correct that are objected to by the Examination of the correct that are objected to by the Examination of the correct that are objected to by the Examination of the correct that are objected to by the Examination of the correct that are objected to by the Examination of the correct that are objected to by the Examination of the correct that are objected to by the Examination of the correct that are objected to by the Examination of the correct that are objected to be correct that are objected to be correct that are objected to be correctly that are objected to be corectly that are objected to be correctly that are objected to be c	er. re: a) accepted or b) objected or drawing(s) be held in abeyance. See cition is required if the drawing(s) is objection is required if the drawing(s) is objected.	e 37 CFR 1.85(a). sected to. See 37 CFR 1.121(d).				
Priority u	ınder 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
2) 🔲 Notic 3) 🔯 Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 r No(s)/Mail Date <u>6-25-2004</u> .	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa					

DETAILED ACTION

This is the first action relating to serial application number 10/706,696 filed 11/12/2003. Claims 1-14 are currently pending.

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Drawings

2. The examiner has accepted the drawing filed with this application.

Specification

3. The abstract of the disclosure is objected to because it is not proper to use legal phrases in the abstract. Therefore, the term "said" should be changed to –the--. Correction is required. See MPEP § 608.01(b). In addition, the phrase "The invention provides" is a phrase, which can be implied and should be removed from the abstract.

4. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

5. The disclosure is objected to because of the following informalities: the sub-title – Field of Invention-- for the first paragraph missing. Appropriate correction is required.

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In page 7, line 15, the reference numeral "6" should be should be "5" because "5" is the ridge.

Claim Rejections - 35 USC § 112

6. Claims 1-14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In claim 1, the phrase "in particular" renders the claim indefinite because it is unclear whether the limitation(s) following the phrase are part of the claimed invention or the claim is referring to certain limitations that are not claimed. In addition, the phrase "at least V-ribs" is unclear and confusing because it appears the claim is also referring to other similar shaped belt.

A broad range or limitation together with a narrow range or limitation that falls within the broad range or limitation (in the same claim) is considered indefinite, since the resulting claim does not clearly set forth the metes and bounds of the patent protection desired. See MPEP § 2173.05(c). Note the explanation given by the Board of Patent Appeals and Interferences in *Ex parte Wu*, 10 USPQ2d 2031, 2033 (Bd. Pat. App. & Inter. 1989), as to where broad language is followed by "such as" and then narrow language. The Board stated that this can render a claim indefinite by raising a question or doubt as to whether the feature introduced by such language is (a) merely exemplary of the remainder of the claim, and therefore not required, or (b) a required feature of the claims. Note also, for example, the decisions of *Ex parte Steigewald*, 131 USPQ 74 (Bd. App. 1961); *Ex parte Hall*, 83 USPQ 38 (Bd. App. 1948); and *Ex parte Hasche*, 86 USPQ 481 (Bd. App. 1949). In the present instance, claims 3, 7, 9, recite

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the broad recitations 1.1mm to 1.3mm, 1.1mm to 1.5mm and 1.9mm to 2.3mm respectively, and the claim also recites "more particularly" 1.15mm to 1.25mm, 1.08mm to 1.36mm and 2mm to 2.2mm respectively, which is the narrower statement of the range/limitation.

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 1-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kitahama et al. (4,904,232). Kitahama et al. discloses a transmission belt (fig. 2) comprising a plurality of v-ribs (15) having flat sides faces (20) and round ridges that present a convex curvilinear profile. Kitahama et al. is silent concerning the radius and length of the convex profile or the ridge, the length of the flat side and the height of the rib. It is well known in the art that the radius of the tip of the rib and the length of the flat side of the rib is dependent on the size of the belt. However, such dimensions are subjective and relative to the size of pulley and belt. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the belt of Kitahama et al. so that the rib tip has a convex curvilinear radius, the height of the rib and the length of the flat side that falls within the ranges of the claimed invention, since it has been held that where the general conditions of a claim are disclose in the prior art, discovering the optimum ranges involves routing skill ion the art. in re Aller, 105 USPQ

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233. Furthermore, it would have been a matter of obvious design choice based on the size of the belt and pulley such that one of ordinary skill in the would be able to make the radius of the convex curvilinear profile to be greater than 1mm and less that or equal to 1.5 mm, the length of the flat side to be between 0.7mm and 1.8 mm and the height of the rib to be between 1.8 and 2.5mm.

In claim 4, note the curvilinear profile is a circle (fig. 2).

In claim 11, note the curvilinear profile is tangential to the side face at the point of contact (22, 125 in fig. 2).

In claim 12, it is apparent that the belt is a K-type belt.

9. Claims 13 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kitahama et al. in view of Waugh (4,011,766). Kitahama et al. do not disclose that the V-ribs of the V-belt are machined or molded. Waugh discloses that it is well know for the V-ribs of the V-belt to be machined or molded (col.6, 22-33). Therefore, it would have been obvious to one of ordinary skill in art at the time of the invention to produce the v-ribs of Kitahama et al. device by molding or machine in view of Waugh in order to manufacturing cost, reduce production time and to avoid shaving/finishing after manufacturing.

Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Patterson discloses a belt being formed by molding. White et al. (5,458,710) discloses a belt being formed by machining. White, Jr. et al. (4,960,476),

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Fischer (4,330,287), Semin et al. (3,643,518) and JP (2003-14053) disclose a belt having a rib such that the tip of the rib has a convex curvilinear shape.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marcus Charles whose telephone number is (571) 272-7101. The examiner can normally be reached on Monday-Thursday 7:30 am to 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ridley Richard can be reached on (571) 272-6917. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Marcus Charles
Primary Examiner
Art Unit 3682

May 09, 2006